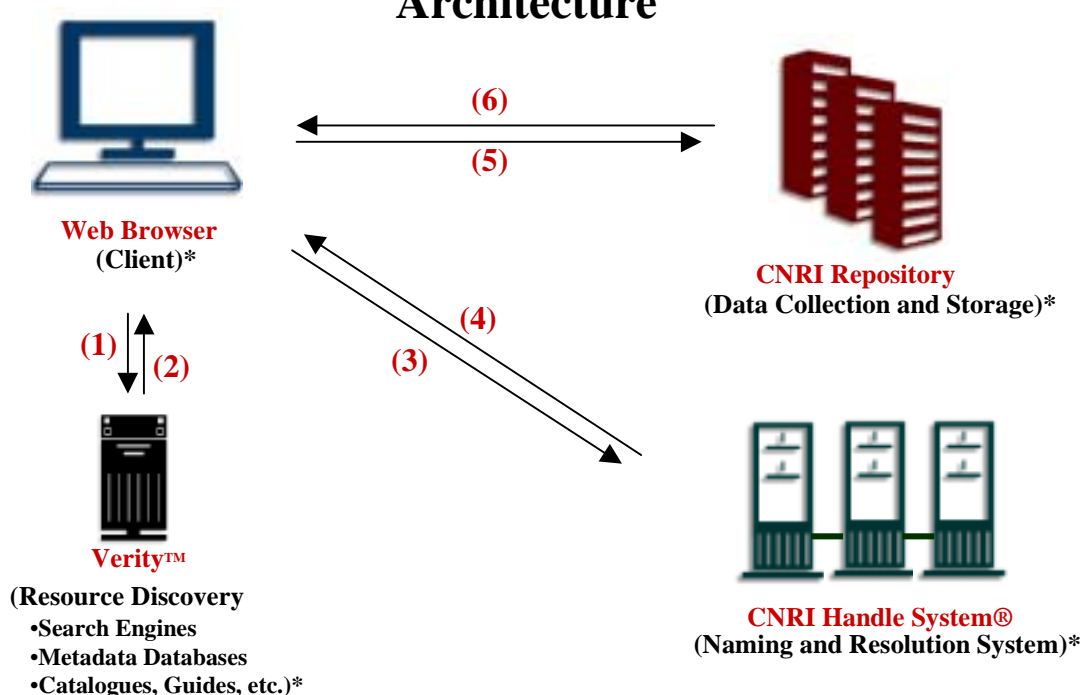


Defense Virtual Library Architecture



- (1) An end user uses a web browser to search Verity indexes for Digital Objects in the collection.
- (2) The Verity search results are returned to the web browser and displayed to the user.
- (3) The user clicks on a highlighted Handle to send a query to the Handle System to get the location of that Digital Object.
- (4) The Handle System responds to the Client with the location of the Repository.
- (5) The Client queries the Repository for the Digital Object.
- (6) The Digital Object is returned to the Client and displayed to the user.

*The Defense Virtual Library is a specific example of a generic **Digital Object Architecture**, the pieces of which are a **Client**, a **Resource Discovery** method, a **Naming and Resolution System**, and a **Data Collection and Storage** mechanism.

For additional information about Digital Object Architecture, see the article by William Y. Arms in *D-Lib Magazine*, February 1997, <http://www.dlib.org/dlib/february97/cnri/02arms1.html>. For information about Verity, see <http://www.verity.com/> and for information about the CNRI Handle System, see <http://www.handle.net/>.



Defense Virtual Library Fact Sheet

November 2000

<http://dvl.dtic.mil/>

The Partners:

- Defense Technical Information Center
- Defense Advanced Research Projects Agency
- Corporation for National Research Initiatives

Objectives of the DVL Program:

- Put in place new ways to manage new types of digital information. Still and moving images and sound, as well as text, have been implemented to date.
- Identify the metadata required for long-term management of digital objects -- not just for resource discovery but also for protection of intellectual property and preservation across changing technologies.
- Use standard Internet browsers.
- Use Uniform Resource Names (Handle System) instead of URLs (Uniform Resource Locators) for long-term management of digital information objects.
- Use applicable standards and best practices -- CORBA, MARC, and AACR2.
- Implement advanced commercial search engine technology (Verity).
- Serve as a testbed for DARPA-funded research in computer architectures using DTIC data.

Contents of DVL as of November 2000:

- DTIC technical report citations mapped to MARC-like display.
- DTIC technical reports viewable as full text in PDF.
- Metadata for still image, sound and moving image files created according to AACR2/MARC standards.
- Still images in GIF and JPEG formats.
- Sound files for music and oral history excerpts playable in Real Audio and WAV formats.
- Full length moving image files and clips playable in Real Media and MPEG formats.

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